

IN THE CLAIMS:

The following listing of claims replaces all prior versions and listings of claims in the present application.

Listing of Claims:

1. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine, comprising:

a mixing chamber that mixes fuel with fresh air; and

a valve train that opens and shuts an exhaust opening to exhaust mixture from the missing mixing chamber; wherein

the mixture supplying apparatus is installed located in a cylinder of the internal combustion engine and exhausts the mixture from the exhaust opening to the cylinder, the valve train being in the mixing chamber and equipped with a spring arranged to move a valve in a shutting direction.

2. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine according to claim 1, wherein

the mixing chamber is provided with a fresh air intake and a fuel intake, the both intake is fresh air and fuel intakes being provided with an air injection valve and a fuel injection valve, respectively.

3. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine according to claim 1, wherein

the valve train that opens and shuts the exhaust opening is eomposed of a an outwardly opening valve.

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4. (Currently Amended) A mixture supplying apparatus for a direct injection internal combustion engine according to claim 2, wherein

the air injection valve injects air to the ~~offset position form a centerline of~~
inside of a radius direction from the mixing chamber, the fuel injection valve injects fuel along a centerline of the mixing chamber to the mixing chamber.